

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 – 31 (Cancelled)

32. (Previously presented) A method of decompressing compressed video information comprising:

receiving a compressed bit stream of video information including a compressed portion;
performing a reverse combination in the transform domain on said compressed portion to produce two corresponding portions of video information, said two portions representing said compressed portion in a less compressed form;

temporarily storing said two portions of video information as said reverse combination is being performed;

transforming, decoding and decompressing one of said two portions of video information to produce a decompressed portion of video information; and

outputting said decompressed portion of video information, whereby said method uses relatively less temporary storage.

33. (Cancelled)

34. (Previously presented) An integrated circuit for decompressing compressed video information arranged to perform the following:

receiving a compressed bit stream of video information including a compressed portion;
performing a reverse combination on said compressed portion to produce two corresponding portions of video information, said two portions representing said compressed portion in a less compressed form in a transform domain;

temporarily storing said two portions of video information as said reverse combination is being performed;

transforming, decoding and decompressing one of said two portions of video information to produce a decompressed portion of video information; and

outputting said decompressed portion of video information, whereby said integrated circuit uses relatively less temporary storage.

35. (New) A system for decompressing compressed video information comprising:
a processor; and
a memory coupled with the processor, wherein the memory is configured to provide the processor with instructions which when executed cause the processor to:
receive a compressed bit stream of video information including a compressed portion;
perform a reverse combination in the transform domain on said compressed portion to produce two corresponding portions of video information, said two portions representing said compressed portion in a less compressed form;
temporarily store said two portions of video information as said reverse combination is being performed;
transform, decode and decompress one of said two portions of video information to produce a decompressed portion of video information; and
output said decompressed portion of video information, whereby said method uses relatively less temporary storage.

36. (New) A computer program product for decompressing compressed video information, the computer program product being embodied in a computer readable medium and comprising computer instructions for:
receiving a compressed bit stream of video information including a compressed portion;
performing a reverse combination in the transform domain on said compressed portion to produce two corresponding portions of video information, said two portions representing said compressed portion in a less compressed form;
temporarily storing said two portions of video information as said reverse combination is being performed;
transforming, decoding and decompressing one of said two portions of video information to produce a decompressed portion of video information; and
outputting said decompressed portion of video information, whereby said method uses relatively less temporary storage.